In the Claims

Amendments to the Claims:

Please amend the claims as follows:

1. (currently amended) A die, comprising:

a single substrate;

two or more various shaped bump structures formed over the single substrate; each of the two or more various shaped bump structures having a solder

5 line; and

an epoxy layer formed over the single substrate; the epoxy layer having a top surface wherein[:]

- a) the solder lines are below the top surface of the epoxy layer[;]
- b) the solder lines are above the top surface of the epoxy layer[;]

10 or

c) some of the solder lines are below the top surface of the epoxy
layer and some of the solder lines are above the top
surface of the epoxy layer.

S/N: 10/742,306

2. (original) The die of claim 1, wherein one or more of the two or more various

shaped bump structures have a first height and one or more of the two or more

various shaped bump structures have a second height that is less than the first

height.

3. (original) The die of claim 1, wherein the two or more various shaped bump

structures have a round shape, a rectangular shape, a square shape, a bar shape or a

circular shape.

4. (original) The die of claim 1, wherein at least one of the two or more various

shaped bump structures has a bar shape with a width of from about 40 to 300µm

and a length of up to about 3000µm.

5. (original) The die of claim 1, wherein at least one of the two or more various

shaped bump structures has a round shape with a diameter of from about 40 to

 $300\mu m$.

6. (original) The die of claim 1, wherein at least one of the two or more various

shaped bump structures has a rectangular shape with a width of from about 40 to

 $300\mu m$ and a length of from about 300 to 3000 μm .

S/N: 10/742,306

7. (original) The die of claim 1, wherein at least one of the two or more various

shaped bump structures has a rectangular shape with a width of from about 100 to

200μm and a length of from about 350 to 1200μm.

8. (original) The die of claim 1, wherein at least one of the two or more various

shaped bump structures has a square shape with a width of from about 40 to 300

μm.

9. (original) The die of claim 1, wherein at least one of the two or more various

shaped bump structures has a square shape with a width of from about 100 to

200μm.

10. (original) The die of claim 1, wherein at least one of the two or more various

shaped bump structures has a circular shape with an outside diameter of from

about 150 to 3000μm and an outside diameter of from about 100 to 2500μm.

11. (original) The die of claim 1, wherein at least one of the two or more various

shaped bump structures has a square and/or rectangular shape and is employed as

an RF shield or a Faraday cage.

Docket: APS03-003 S/N: 10/742,306

12. (original) The die of claim 1, wherein the epoxy layer is comprised of

thermosetting resins or an underfill coating material.

13. (currently amended) A die, comprising:

a single substrate;

two or more various shaped bump structures formed over the single

substrate; each of the two or more various shaped bump structures having a solder

line; one or more of the two or more various shaped bump structures having a first

height and one or more of the two or more various shaped bump structures having

a second height that is less than the first height; and

an epoxy layer formed over the single substrate; the epoxy layer having a

top surface wherein[:]

5

10

15

a) the solder lines are below the top surface of the epoxy layer[;]

b) the solder lines are above the top surface of the epoxy layer[;]

or

c) some of the solder lines are below the top surface of the epoxy

layer and some of the solder lines are above the top

surface of the epoxy layer.

S/N: 10/742,306

14. (original) The die of claim 13, wherein the two or more various shaped bump

structures have a round shape, a rectangular shape, a square shape, a bar shape or a

circular shape.

15. (original) The die of claim 13, wherein at least one of the two or more various

shaped bump structures has a bar shape with a width of from about 40 to 300μm

and a length of up to about 3000µm.

16. (original) The die of claim 13, wherein at least one of the two or more various

shaped bump structures has a round shape with a diameter of from about 40 to

 $300\mu m$.

17. (original) The die of claim 13, wherein at least one of the two or more various

shaped bump structures has a rectangular shape with a width of from about 40 to

 $300\mu m$ and a length of from about 300 to 3000 μm .

18. (original) The die of claim 13, wherein at least one of the two or more various

shaped bump structures has a rectangular shape with a width of from about 100 to

200μm and a length of from about 350 to 1200μm.

S/N: 10/742,306

19. (original) The die of claim 13, wherein at least one of the two or more various

shaped bump structures has a square shape with a width of from about 40 to 300

μm.

20. (original) The die of claim 13, wherein at least one of the two or more various

shaped bump structures has a square shape with a width of from about 100 to

200μm.

21. (original) The die of claim 13, wherein at least one of the two or more various

shaped bump structures has a circular shape with an outside diameter of from

about 150 to 3000 µm and an outside diameter of from about 100 to 2500 µm.

22. (original) The die of claim 13, wherein at least one of the two or more various

shaped bump structures has a square and/or rectangular shape and is employed as

an RF shield or a Faraday cage.

23. (original) The die of claim 13, wherein the epoxy layer is comprised of

thermosetting resins or an underfill coating material.

24. (original) The die of claim 13, wherein the two or more various shaped bump

structures have two sets of heights.

Docket: APS03-003 S/N: 10/742,306

25. (currently amended) A die, comprising:

a single substrate;

two or more various shaped bump structures formed over the single substrate; each of the two or more various shaped bump structures having a solder line; the two or more various shaped bump structures having a round shape, a rectangular shape, a square shape, a bar shape or a circular shape; and

an epoxy layer formed over the single substrate; the epoxy layer having a top surface wherein[:]

- a) the solder lines are below the top surface of the epoxy layer[;]
- b) the solder lines are above the top surface of the epoxy layer[;]

or

5

10

c) some of the solder lines are below the top surface of the epoxy
layer and some of the solder lines are above the top
surface of the epoxy layer.

26. (original) The die of claim 25, wherein one or more of the two or more various shaped bump structures have a first height and one or more of the two or more various shaped bump structures have a second height that is less than the first height.

S/N: 10/742,306

27. (original) The die of claim 25, wherein at least one of the two or more various

shaped bump structures has a bar shape with a width of from about 40 to 300µm and a

length of up to about 3000µm.

28. (original) The die of claim 25, wherein at least one of the two or more various

shaped bump structures has a round shape with a diameter of from about 40 to 300 µm.

29. (original) The die of claim 25, wherein at least one of the two or more various

shaped bump structures has a rectangular shape with a width of from about 40 to

300μm and a length of from about 300 to 3000 μm.

30. (original) The die of claim 25, wherein at least one of the two or more various

shaped bump structures has a rectangular shape with a width of from about 100 to

200μm and a length of from about 350 to 1200μm.

31. (original) The die of claim 25, wherein at least one of the two or more various

shaped bump structures has a square shape with a width of from about 40 to $300~\mu m$.

32. (original) The die of claim 25, wherein at least one of the two or more various

shaped bump structures has a square shape with a width of from about 100 to 200μm.

S/N: 10/742,306

33. (original) The die of claim 25, wherein at least one of the two or more various

shaped bump structures has a circular shape with an outside diameter of from about

150 to 3000μm and an outside diameter of from about 100 to 2500μm.

34. (original) The die of claim 25, wherein at least one of the two or more various

shaped bump structures has a square and/or rectangular shape and is employed as an

RF shield or a Faraday cage.

35. (original) The die of claim 25, wherein the epoxy layer is comprised of thermosetting

resins or an underfill coating material.

36. (new) The die of claim 1, wherein

- a) the solder lines are below the top surface of the epoxy layer;
- b) the solder lines are above the top surface of the epoxy layer;

or

c) some of the solder lines are below the top surface of the epoxy

layer and some of the solder lines are above the top

surface of the epoxy layer.

37. (new) The die of claim 13, wherein

a) the solder lines are below the top surface of the epoxy layer;

b) the solder lines are above the top surface of the epoxy layer;

Docket: APS03-003 S/N: 10/742,306

or

c) some of the solder lines are below the top surface of the epoxy layer and some of the solder lines are above the top surface of the epoxy layer.

38. (new) The die of claim 25, wherein

- a) the solder lines are below the top surface of the epoxy layer;
- b) the solder lines are above the top surface of the epoxy layer;

or

c) some of the solder lines are below the top surface of the epoxy layer and some of the solder lines are above the top surface of the epoxy layer.